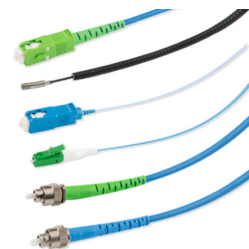


## Polarization Maintaining Cables

- Any combination of connectors, fibers, and cables
- IL and ER testing at the design wavelength
- Proprietary epoxy curing for high extinction ratios
- Built in the USA with quality components
- ISO 9001 Certified
- 100% Testing
  - Insertion Loss
  - Return Loss
  - Extinction Ratio
  - Endface Geometry
  - Polish Quality



### Connectors

Connectors	FC, QFC	LC	SC	1.25mm Ferrule	1.8mm Capillary	2.5mm Ferrule	3.2mm Ferrule
Polish	APC, UPC, Flat Angle	APC, UPC					
Type	Screw on	Push/Pull	Push/Pull	Ceramic Stainless	Borosilicate	Ceramic Stainless Borosilicate	Ceramic Stainless

### Fibers

Typical values

Fiber Wavelength	350	400	RGB	480	630	850	980	1060 1600	1300	1550	1950
Cut-Off (nm)	290-340	330-400	360-405	400-470	520-620	650-800	870-950	LMA	1130-1270	1300-1440	1640-1800
Mode Field (um)	2.3	3.5	2.5-3.3	4.0	4.5	5.5	6.6	20 & 30	9.0	10.5	8.0
Attenuation (dB/km)	N/A	≤50	≤30-≤50	≤30	≤12	≤3.0	≤2.5	≤15	≤1.0	≤0.5	N/A
Numerical Aperture	.12	.08	.10-.13	.075	.09	.10	.10	.08 & .06	.10	.10	.2

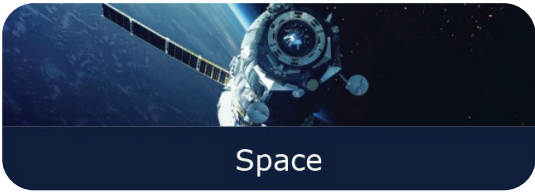
### Cables

OD	900um	1.6mm	2mm	3mm	3.8mm	5mm	5.8mm	7mm
Jacket Material	Hytrel, PVC PVDF, PTFE	PVC	PVC, PVDF, Polyurethane	PVC, PVDF, Polyurethane Stainless	Stainless	Stainless Plastic	Stainless w/ Silicone	Stainless
Strength Member	None	Kevlar						

### Performance

Wavelength	405	460	630	780	850	980	1060	1310	1550
Insertion Loss (dB)	≤1.5 (≤1.0 Avail)	≤1.15 (≤0.75 Avail)	≤0.9 (≤0.55 Avail)	≤0.75 (≤0.45 Avail)	≤0.60 (≤0.35 Avail)	≤0.40 (≤0.25 Avail)	≤0.20 (≤0.10 Avail)		
Return Loss (dB)	APC ≥60* UPC ≥45*			APC ≥65* UPC ≥50*					
Extinction Ratio (dB)	≥25					≥25 (30 Avail.)			
Key to Fiber Alignment	+/- 2°								

\* Return loss on 400 to 1060nm fiber is measured at 1310nm



## Industries We Serve

At Impact Electronic Solutions, we offer cutting-edge prototype and full-turnkey production services, providing unparalleled innovation and seamless solutions to meet your needs.

Our expertise spans highly regulated and mission-critical environments. We deliver complex electronic, fiber optic, and electromechanical products with exceptional quality and reliability. From product development to full-scale manufacturing, we prioritize customer-centric solutions and support groundbreaking innovations.

With extensive experience, we ensure success across diverse industries by consistently meeting rigorous standards and exceeding expectations.

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## About Us

We are a dynamic team dedicated to delivering innovative electronic design and manufacturing services that consistently outperform industry standards.

Our headquarters are in the Pacific Northwest, and the Impact ES network spans five key locations across the U.S.:

- Clearwater, Florida
- Cranston, Rhode Island
- Grants Pass, Oregon
- Vancouver, Washington
- Ventura, California

Our facilities have been recognized for excellence by numerous corporations, organizations, and publications, showcasing our commitment to quality, precision, and customer satisfaction nationwide.

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## Fiber Optic Cables and Assemblies Certifications



NASA 8739.5

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### Contact Us

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